

Test on generated test data

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Updated date: Aug 4, 2022

 An abbreviated version of this protocol was published in eLIFE in Jun 2021

Microtubule reorganization during female meiosis in *C. elegans*

DOI: 10.7554/eLife.58903

Detailed protocol

The github repository which contains the Code associated to this paper. (see <https://github.com/SebastianFuerthauer/SpindleRearrangement>). This now contains a python file named `create_artificial_data.py` which we used for generating test cases.

The code allows you to pick a timestep DT. Each timestep consists of the following sequence:

- 1/ catastrophing MTs are determined and destroyed.
- 2/ on surviving MTs cutting events are performed.
- 3/ New MTs are nucleated.
- 4/ All surviving MTs grow.

Test data is generated by running the Code for a total time that is long compared to catastrophe and cutting times, such that a steady state is reached.

For analysis we use the same scripts as for actual data, which are available from the same github repository.

How to cite: (Readers should cite both the Bio-protocol preprint and the original research article where this protocol was used)

1. Fürthauer, S. and Redemann, S. (2022). Test on generated test data. Bio-protocol Preprint. bio-protocol.org/prep1843.
2. Lantzsch, I., Yu, C., Chen, Y., Zimyanin, V., Yazdkhasti, H., Lindow, N., Szentgyoergyi, E., Pani, A. M., Prohaska, S., Srayko, M., Fürthauer, S. and Redemann, S. (2021). Microtubule reorganization during female meiosis in *C. elegans*. eLIFE. DOI: [10.7554/eLife.58903](https://doi.org/10.7554/eLife.58903)

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